



SEQUENCE LISTING

<10> Ish-Horowicz, David
Henrique, Domingos Manuel Pinto
Lewis, Julian Hart
Artavanis Tsakonas, Spyridon
Gray, Grace

<120> ANTIBODIES TO VERTEBRATE DELTA PROTEINS

AND FRAGMENTS

<130> 7326-122-999

<140> 09/783,931

<141> 2001-02-15

<150> 08/981,392

<151> 1997-12-22

<150> PCT/US96/11178

<151> 1996-06-28

<150> 60/000,589

<151> 1995-06-28

<160> 95

<170> FastSEQ for Windows Version 4.0

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ctgccgggac	agtgtgaacg	acttctcctc	tacctgcccc	cctggctaca	cgggcaagaa	1440

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<211> 721
<212> PRT
<213> Xenopus

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20     25     30
Val Asn Lys Lys Gly Leu Leu Gly Asn Met Asn Cys Cys Arg Pro Gly
35     40     45
Ser Leu Ala Ser Leu Gln Arg Cys Glu Cys Lys Thr Phe Phe Arg Ile
50     55     60
Cys Leu Lys His Tyr Gln Ser Asn Val Ser Pro Glu Pro Pro Cys Thr
65     70     75     80
Tyr Gly Gly Ala Val Thr Pro Val Leu Gly Thr Asn Ser Phe Val Val
85     90     95
Pro Glu Ser Ser Asn Ala Asp Pro Thr Phe Ser Asn Pro Ile Arg Phe
100    105    110
Pro Phe Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala
115    120    125
Ile His Ala Asp Ser Ala Asp Asp Leu Asn Thr Glu Asn Pro Glu Arg
130    135    140
Leu Ile Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu Gln
145    150    155    160
Trp Ser Gln Asp Leu His Ser Ser Asp Arg Thr Glu Leu Lys Tyr Ser
165    170    175
Tyr Arg Phe Val Cys Asp Glu Tyr Tyr Tyr Gly Glu Gly Cys Ser Asp
180    185    190
Tyr Cys Arg Pro Arg Asp Asp Ala Phe Gly His Phe Ser Cys Gly Glu
195    200    205
Lys Gly Glu Lys Leu Cys Asn Pro Gly Trp Lys Gly Leu Tyr Cys Thr
210    215    220
Glu Pro Ile Cys Leu Pro Gly Cys Asp Glu His His Gly Tyr Cys Asp
225    230    235    240

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Lys	Pro	Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr	Cys	
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Pro	Trp	Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys	Asn	
		275				280						285				
Gln	Asp	Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Glu	Asn	Gly	Ala	
	290					295					300					
Thr	Cys	Thr	Asn	Thr	Gly	Gln	Gly	Ser	Tyr	Thr	Cys	Ser	Cys	Arg	Pro	
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Gly	Tyr	Thr	Gly	Ser	Asn	Cys	Glu	Ile	Glu	Val	Asn	Glu	Cys	Asp	Ala	
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Asn	Pro	Cys	Lys	Asn	Gly	Gly	Ser	Cys	Ser	Asp	Leu	Glu	Asn	Ser	Tyr	
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Ala	Met	Thr	Cys	Ala	Asp	Gly	Pro	Cys	Phe	Asn	Gly	Gly	Arg	Cys	Ala	
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Asp	Asn	Pro	Asp	Gly	Gly	Tyr	Ile	Cys	Phe	Cys	Pro	Val	Gly	Tyr	Ser	
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Gly	Phe	Asn	Cys	Glu	Lys	Lys	Ile	Asp	Tyr	Cys	Ser	Ser	Asn	Pro	Cys	
			405					410						415		
Ala	Asn	Gly	Ala	Arg	Cys	Glu	Asp	Leu	Gly	Asn	Ser	Tyr	Ile	Cys	Gln	
		420						425					430			
Cys	Gln	Glu	Gly	Phe	Ser	Gly	Arg	Asn	Cys	Asp	Asp	Asn	Leu	Asp	Asp	
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Cys	Thr	Ser	Phe	Pro	Cys	Gln	Asn	Gly	Gly	Thr	Cys	Gln	Asp	Gly	Ile	
	450					455					460					
Asn	Asp	Tyr	Ser	Cys	Thr	Cys	Pro	Pro	Gly	Tyr	Ile	Gly	Lys	Asn	Cys	
465					470					475					480	
Ser	Met	Pro	Ile	Thr	Lys	Cys	Glu	His	Asn	Pro	Cys	His	Asn	Gly	Ala	
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Thr	Cys	His	Glu	Arg	Asn	Asn	Arg	Tyr	Val	Cys	Gln	Cys	Ala	Arg	Gly	
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Tyr	Gly	Gly	Asn	Asn	Cys	Gln	Phe	Leu	Leu	Pro	Glu	Glu	Lys	Pro	Val	
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Val	Val	Asp	Leu	Thr	Glu	Lys	Tyr	Thr	Glu	Gly	Gln	Ser	Gly	Gln	Phe	
	530					535					540					
Pro	Trp	Ile	Ala	Val	Cys	Ala	Gly	Ile	Val	Leu	Val	Leu	Met	Leu	Leu	
545					550					555					560	
Leu	Gly	Cys	Ala	Ala	Val	Val	Val	Cys	Val	Arg	Val	Arg	Val	Gln	Lys	
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Arg	Arg	His	Gln	Pro	Glu	Ala	Cys	Arg	Gly	Glu	Ser	Lys	Thr	Met	Asn	
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Asn	Leu	Ala	Asn	Cys	Gln	Arg	Glu	Lys	Asp	Ile	Ser	Val	Ser	Phe	Ile	
		595				600						605				
Gly	Thr	Thr	Gln	Ile	Lys	Asn	Thr	Asn	Lys	Lys	Ile	Asp	Phe	Leu	Ser	
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Glu	Ser	Asn	Asn	Glu	Lys	Asn	Gly	Tyr	Lys	Pro	Arg	Tyr	Pro	Ser	Val	
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Asp	Tyr	Asn	Leu	Val	His	Glu	Leu	Lys	Asn	Glu	Asp	Ser	Pro	Lys	Glu	
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Glu	Arg	Ser	Lys	Cys	Glu	Ala	Lys	Cys	Ser	Ser	Asn	Asp	Ser	Asp	Ser	
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Glu	Asp	Val	Asn	Ser	Val	His	Ser	Lys	Arg	Asp	Ser	Ser	Glu	Arg	Arg	
		675				680						685				
Arg	Pro	Asp	Ser	Ala	Tyr	Ser	Thr	Ser	Lys	Asp	Thr	Lys	Tyr	Gln	Ser	
	690					695					700					
Val	Tyr	Val	Ile	Ser	Asp	Glu	Lys	Asp	Glu	Cys	Ile	Ile	Ala	Thr	Glu	
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Val																

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 <212> PRT
 <213> Drosophila

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 35 40 45
 Glu Ser Asp Gly Ala Thr Gly Lys Cys Leu Gly Ser Cys Lys Thr Arg
 50 55 60
 Phe Arg Leu Cys Leu Lys His Tyr Gln Ala Thr Ile Asp Thr Thr Ser
 65 70 75 80
 Gln Cys Thr Tyr Gly Asp Val Ile Thr Pro Ile Leu Gly Glu Asn Ser
 85 90 95
 Val Asn Leu Thr Asp Ala Gln Arg Phe Gln Asn Lys Gly Phe Thr Asn
 100 105 110
 Pro Ile Gln Phe Pro Phe Ser Phe Ser Trp Pro Gly Thr Phe Ser Leu
 115 120 125
 Ile Val Glu Ala Trp His Asp Thr Asn Asn Ser Gly Asn Ala Arg Thr
 130 135 140
 Asn Lys Leu Leu Ile Gln Arg Leu Leu Val Gln Gln Val Leu Glu Val
 145 150 155 160
 Ser Ser Glu Trp Lys Thr Asn Lys Ser Glu Ser Gln Tyr Thr Ser Leu
 165 170 175
 Glu Tyr Asp Phe Arg Val Thr Cys Asp Leu Asn Tyr Tyr Gly Ser Gly
 180 185 190
 Cys Ala Lys Phe Cys Arg Pro Arg Asp Asp Ser Phe Gly His Ser Thr
 195 200 205
 Cys Ser Glu Thr Gly Glu Ile Ile Cys Leu Thr Gly Trp Gln Gly Asp
 210 215 220
 Tyr Cys His Ile Pro Lys Cys Ala Lys Gly Cys Glu His Gly His Cys
 225 230 235 240
 Asp Lys Pro Asn Gln Cys Val Cys Gln Leu Gly Trp Lys Gly Ala Leu
 245 250 255
 Cys Asn Glu Cys Val Leu Glu Pro Asn Cys Ile His Gly Thr Cys Asn
 260 265 270
 Lys Pro Trp Thr Cys Ile Cys Asn Glu Gly Trp Gly Gly Leu Tyr Cys
 275 280 285
 Asn Gln Asp Leu Asn Tyr Cys Thr Asn His Arg Pro Cys Lys Asn Gly
 290 295 300
 Gly Thr Cys Phe Asn Thr Gly Glu Gly Leu Tyr Thr Cys Lys Cys Ala
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 Pro Gly Tyr Ser Gly Asp Asp Cys Glu Asn Glu Ile Tyr Ser Cys Asp
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 Ala Asp Val Asn Pro Cys Gln Asn Gly Gly Thr Cys Ile Asp Glu Pro
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 His Thr Lys Thr Gly Tyr Lys Cys His Cys Arg Asn Gly Trp Ser Gly
 355 360 365
 Lys Met Cys Glu Glu Lys Val Leu Thr Cys Ser Asp Lys Pro Cys His
 370 375 380
 Gln Gly Ile Cys Arg Asn Val Arg Pro Gly Leu Gly Ser Lys Gly Gln
 385 390 395 400
 Gly Tyr Gln Cys Glu Cys Pro Ile Gly Tyr Ser Gly Pro Asn Cys Asp
 405 410 415

Leu	Gln	Leu	Asp	Asn	Cys	Ser	Pro	Asn	Pro	Cys	Ile	Asn	Gly	Gly	Ser		
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	450					455					460						
Gly	Gly	Thr	Cys	Ile	Asp	Met	Val	Asn	Gln	Tyr	Arg	Cys	Gln	Cys	Val		
465					470					475					480		
Pro	Gly	Phe	His	Gly	Thr	His	Cys	Ser	Ser	Lys	Val	Asp	Leu	Cys	Leu		
				485					490					495			
Ile	Arg	Pro	Cys	Ala	Asn	Gly	Gly	Thr	Cys	Leu	Asn	Leu	Asn	Asn	Asp		
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Tyr	Gln	Cys	Thr	Cys	Arg	Ala	Gly	Phe	Thr	Gly	Lys	Asp	Cys	Ser	Val		
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Asp	Ile	Asp	Glu	Cys	Ser	Ser	Gly	Pro	Cys	His	Asn	Gly	Gly	Thr	Cys		
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Met	Asn	Arg	Val	Asn	Ser	Phe	Glu	Cys	Val	Cys	Ala	Asn	Gly	Phe	Arg		
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Gly	Lys	Gln	Cys	Asp	Glu	Glu	Ser	Tyr	Asp	Ser	Val	Thr	Phe	Asp	Ala		
				565				570						575			
His	Gln	Tyr	Gly	Ala	Thr	Thr	Gln	Ala	Arg	Ala	Asp	Gly	Leu	Ala	Asn		
			580				585						590				
Ala	Gln	Val	Val	Leu	Ile	Ala	Val	Phe	Ser	Val	Ala	Met	Pro	Leu	Val		
	595						600					605					
Ala	Val	Ile	Ala	Ala	Cys	Val	Val	Phe	Cys	Met	Lys	Arg	Lys	Arg	Lys		
	610					615					620						
Arg	Ala	Gln	Glu	Lys	Asp	Asn	Ala	Glu	Ala	Arg	Lys	Gln	Asn	Glu	Gln		
625					630					635					640		
Asn	Ala	Val	Ala	Thr	Met	His	His	Asn	Gly	Ser	Ala	Val	Gly	Val	Ala		
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Leu	Ala	Ser	Ala	Ser	Met	Gly	Gly	Lys	Thr	Gly	Ser	Asn	Ser	Gly	Leu		
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Thr	Phe	Asp	Gly	Gly	Asn	Pro	Asn	Ile	Ile	Lys	Asn	Thr	Trp	Asp	Lys		
	675						680						685				
Ser	Val	Asn	Asn	Ile	Cys	Ala	Ser	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala		
	690					695					700						
Ala	Ala	Ala	Asp	Glu	Cys	Leu	Met	Tyr	Gly	Gly	Tyr	Val	Ala	Ser	Val		
705					710					715					720		
Ala	Asp	Asn	Asn	Asn	Ala	Asn	Ser	Asp	Phe	Cys	Val	Ala	Pro	Leu	Gln		
				725				730						735			
Arg	Ala	Lys	Ser	Gln	Lys	Gln	Leu	Asn	Thr	Asp	Pro	Thr	Leu	Met	His		
		740						745					750				
Arg	Gly	Ser	Pro	Ala	Gly	Thr	Ser	Ala	Lys	Gly	Ala	Ser	Gly	Gly	Gly		
	755						760					765					
Pro	Gly	Ala	Ala	Glu	Gly	Lys	Arg	Ile	Ser	Val	Leu	Gly	Glu	Gly	Ser		
	770					775					780						
Tyr	Cys	Ser	Gln	Arg	Trp	Pro	Ser	Leu	Ala	Ala	Ala	Gly	Val	Ala	Gly		
785					790					795					800		
Asp	Leu	Phe	Ile	Gln	Leu	Met	Ala	Ala	Ala	Ser	Val	Ala	Gly	Thr	Asp		
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Gly	Thr	Ala	Gln	Gln	Arg	Ser	Val	Val	Cys	Gly	Thr	Pro	His	Met			
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 <211> 46
 <212> PRT
 <213> Drosophila

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			20					25					30		
Gly	Gln	Lys	Leu	Cys	Leu	Asn	Gly	Trp	Gln	Gly	Val	Asn	Cys		
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<210> 8
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 <212> PRT
 <213> Gallus gallus

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Arg	Pro	Arg	Asp	Asp	Phe	Phe	Thr	His	His	Thr	Cys	Asp	Gln	Asn	Gly
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 <212> PRT
 <213> Drosophila

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Ile	Ala	Asn	Ala	Lys	Leu	His	Trp	Glu	Cys	Ser	Thr	His	Gly	Val	Arg
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 <212> PRT
 <213> Drosophila

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Asp	Ala	His	Leu	Ala	Lys	Ala	Ala	Arg	Lys	Arg	Cys	Asp	Ala	Met	Gly
			20					25					30		
Arg	Leu	Arg	Cys	Asp	Ile	Gly	Trp	Met	Gly	Pro	His	Cys			
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 <211> 2692
 <212> DNA
 <213> mouse

<220>
 <221> CDS
 <222> (31)...(2199)
 <223> Mouse Delta (M-Delta-1) gene

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Ala	Leu	Ala	Val	Val	Ser	Ala	Leu	Leu	Cys	Gln	Val	Trp	Ser	Ser	Gly		
10					15					20							
gta	ttt	gag	ctg	aag	ctg	cag	gag	ttc	gtc	aac	aag	aag	ggg	ctg	ctg	150	
Val	Phe	Glu	Leu	Lys	Leu	Gln	Glu	Phe	Val	Asn	Lys	Lys	Gly	Leu	Leu		
25					30					35					40		
ggg	aac	cgc	aac	tgc	tgc	cgc	ggg	ggc	tct	ggc	ccg	cct	tgc	gcc	tgc	198	
Gly	Asn	Arg	Asn	Cys	Cys	Arg	Gly	Gly	Ser	Gly	Pro	Pro	Cys	Ala	Cys		
					45					50					55		
agg	acc	ttc	ttt	cgc	gta	tgc	ctc	aag	cac	tac	cag	gcc	agc	gtg	tca	246	
Arg	Thr	Phe	Phe	Arg	Val	Cys	Leu	Lys	His	Tyr	Gln	Ala	Ser	Val	Ser		
					60					65					70		
ccg	gag	cca	ccc	tgc	acc	tac	ggc	agt	gcc	gtc	acg	cca	gtg	ctg	ggc	294	
Pro	Glu	Pro	Pro	Cys	Thr	Tyr	Gly	Ser	Ala	Val	Thr	Pro	Val	Leu	Gly		
75					80					85							
gtc	gac	tcc	ttc	agc	ctg	cct	gat	ggc	gca	ggc	atc	gac	ccc	gcc	ttc	342	
Val	Asp	Ser	Phe	Ser	Leu	Pro	Asp	Gly	Ala	Gly	Ile	Asp	Pro	Ala	Phe		
90					95					100							
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Ser	Asn	Pro	Ile	Arg	Phe	Pro	Phe	Gly	Phe	Thr	Trp	Pro	Gly	Thr	Phe		
105					110					115					120		
tct	ctg	atc	att	gaa	gcc	ctc	cat	aca	gac	tct	ccc	gat	gac	ctc	gca	438	
Ser	Leu	Ile	Ile	Glu	Ala	Leu	His	Thr	Asp	Ser	Pro	Asp	Asp	Leu	Ala		
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aca	gaa	aac	cca	gaa	aga	ctc	atc	agc	cgc	ctg	acc	aca	cag	agg	cac	486	
Thr	Glu	Asn	Pro	Glu	Arg	Leu	Ile	Ser	Arg	Leu	Thr	Thr	Gln	Arg	His		
140					145					150							
ctc	act	gtg	gga	gaa	gaa	tgg	tct	cag	gac	ctt	cac	agt	agc	ggc	cgc	534	
Leu	Thr	Val	Gly	Glu	Glu	Trp	Ser	Gln	Asp	Leu	His	Ser	Ser	Gly	Arg		
155					160					165							
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Thr	Asp	Leu	Arg	Tyr	Ser	Tyr	Arg	Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr		
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gga	gaa	ggc	tgc	tct	gtg	ttc	tgc	cga	cct	cgg	gat	gac	gcc	ttt	ggc	630	
Gly	Glu	Gly	Cys	Ser	Val	Phe	Cys	Arg	Pro	Arg	Asp	Asp	Ala	Phe	Gly		
185					190					195					200		
cac	ttc	acc	tgc	ggg	gac	aga	ggg	gag	aag	atg	tgc	gac	cct	ggc	tgg	678	
His	Phe	Thr	Cys	Gly	Asp	Arg	Gly	Glu	Lys	Met	Cys	Asp	Pro	Gly	Trp		
					205					210					215		
aaa	ggc	cag	tac	tgc	act	gac	cca	atc	tgt	ctg	cca	ggg	tgt	gat	gac	726	
Lys	Gly	Gln	Tyr	Cys	Thr	Asp	Pro	Ile	Cys	Leu	Pro	Gly	Cys	Asp	Asp		
220					225					230							
caa	cat	gga	tac	tgt	gac	aaa	cca	ggg	gag	tgc	aag	tgc	aga	gtt	ggc	774	
Gln	His	Gly	Tyr	Cys	Asp	Lys	Pro	Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly		

235	240	245	
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cat ggc acc tgc cag caa ccc tgg cag tgt aac tgc cag gaa ggc tgg His Gly Thr Cys Gln Gln Pro Trp Gln Cys Asn Cys Gln Glu Gly Trp 265 270 275 280			870
ggg ggc ctt ttc tgc aac caa gac ctg aac tac tgt act cac cat aag Gly Gly Leu Phe Cys Asn Gln Asp Leu Asn Tyr Cys Thr His His Lys 285 290 295			918
ccg tgc agg aat gga gcc acc tgc acc aac acg ggc cag ggg agc tac Pro Cys Arg Asn Gly Ala Thr Cys Thr Asn Thr Gly Gln Gly Ser Tyr 300 305 310			966
aca tgt tcc tgc cga cct ggg tat aca ggt gcc aac tgt gag ctg gaa Thr Cys Ser Cys Arg Pro Gly Tyr Thr Gly Ala Asn Cys Glu Leu Glu 315 320 325			1014
gta gat gag tgt gct cct agc ccc tgc aag aac gga gcg agc tgc acg Val Asp Glu Cys Ala Pro Ser Pro Cys Lys Asn Gly Ala Ser Cys Thr 330 335 340			1062
gac ctt gag gac agc ttc tct tgc acc tgc cct ccc ggc ttc tat ggc Asp Leu Glu Asp Ser Phe Ser Cys Thr Cys Pro Pro Gly Phe Tyr Gly 345 350 355 360			1110
aag gtc tgt gag ctg agc gcc atg acc tgt gca gat ggc cct tgc ttc Lys Val Cys Glu Leu Ser Ala Met Thr Cys Ala Asp Gly Pro Cys Phe 365 370 375			1158
aat gga gga cga tgt tca gat aac cct gac gga ggc tac acc tgc cat Asn Gly Gly Arg Cys Ser Asp Asn Pro Asp Gly Gly Tyr Thr Cys His 380 385 390			1206
tgc ccc ttg ggc ttc tct ggc ttc aac tgt gag aag aag atg gat ctc Cys Pro Leu Gly Phe Ser Gly Phe Asn Cys Glu Lys Lys Met Asp Leu 395 400 405			1254
tgc ggc tct tcc cct tgt tct aac ggt gcc aag tgt gtg gac ctc ggc Cys Gly Ser Ser Pro Cys Ser Asn Gly Ala Lys Cys Val Asp Leu Gly 410 415 420			1302
aac tct tac ctg tgc cgg tgc cag gct ggc ttc tcc ggg agg tac tgc Asn Ser Tyr Leu Cys Arg Cys Gln Ala Gly Phe Ser Gly Arg Tyr Cys 425 430 435 440			1350
gag gac aat gtg gat gac tgt gcc tcc tcc ccg tgt gca aat ggg ggc Glu Asp Asn Val Asp Asp Cys Ala Ser Ser Pro Cys Ala Asn Gly Gly 445 450 455			1398
acc tgc cgg gac agt gtg aac gac ttc tcc tgt acc tgc cca cct ggc Thr Cys Arg Asp Ser Val Asn Asp Phe Ser Cys Thr Cys Pro Pro Gly 460 465 470			1446
tac acg ggc aag aac tgc agc gcc cct gtc agc agg tgt gag cat gca Tyr Thr Gly Lys Asn Cys Ser Ala Pro Val Ser Arg Cys Glu His Ala 475 480 485			1494

ccc tgc cat aat ggg gcc acc tgc cac cag agg ggc cag cgc tac atg	1542
Pro Cys His Asn Gly Ala Thr Cys His Gln Arg Gly Gln Arg Tyr Met	
490 495 500	
tgt gag tgc gcc cag ggc tat ggc ggc ccc aac tgc cag ttt ctg ctc	1590
Cys Glu Cys Ala Gln Gly Tyr Gly Gly Pro Asn Cys Gln Phe Leu Leu	
505 510 515 520	
cct gag cca cca cca ggg ccc atg gtg gtg gac ctc agt gag agg cat	1638
Pro Glu Pro Pro Pro Gly Pro Met Val Val Asp Leu Ser Glu Arg His	
525 530 535	
atg gag agc cag ggc ggg ccc ttc ccc tgg gtg gcc gtg tgt gcc ggg	1686
Met Glu Ser Gln Gly Gly Pro Phe Pro Trp Val Ala Val Cys Ala Gly	
540 545 550	
gtg gtg ctt gtc ctc ctg ctg ctg ctg ggc tgt gct gct gtg gtg gtc	1734
Val Val Leu Val Leu Leu Leu Leu Leu Gly Cys Ala Ala Val Val Val	
555 560 565	
tgc gtc cgg ctg aag cta cag aaa cac cag cct cca cct gaa ccc tgt	1782
Cys Val Arg Leu Lys Leu Gln Lys His Gln Pro Pro Pro Glu Pro Cys	
570 575 580	
ggg gga gag aca gaa acc atg aac aac cta gcc aat tgc cag cgc gag	1830
Gly Gly Glu Thr Glu Thr Met Asn Asn Leu Ala Asn Cys Gln Arg Glu	
585 590 595 600	
aag gac gtt tct gtt agc atc att ggg gct acc cag atc aag aac acc	1878
Lys Asp Val Ser Val Ser Ile Ile Gly Ala Thr Gln Ile Lys Asn Thr	
605 610 615	
aac aag aag gcg gac ttt cac ggg gac cat gga gcc gag aag agc agc	1926
Asn Lys Lys Ala Asp Phe His Gly Asp His Gly Ala Glu Lys Ser Ser	
620 625 630	
ttt aag gtc cga tac ccc act gtg gac tat aac ctc gtt cga gac ctc	1974
Phe Lys Val Arg Tyr Pro Thr Val Asp Tyr Asn Leu Val Arg Asp Leu	
635 640 645	
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Lys Gly Asp Glu Ala Thr Val Arg Asp Thr His Ser Lys Arg Asp Thr	
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Lys Cys Gln Ser Gln Ser Leu Gln Glu Lys Arg Arg Ser Pro Gln His	
665 670 675 680	
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Leu Gly Val Gly Arg Phe Leu Thr Glu Asn Arg Pro Glu Ser Val Tyr	
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Ser Thr Ser Lys Asp Thr Lys Tyr Gln Ser Val Tyr Val Leu Ser Ala	
700 705 710	
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Glu Lys Asp Glu Cys Val Ile Ala Thr Glu Val	
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<210> 12
 <211> 722
 <212> PRT
 <213> mouse

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35 40 45
Ser Gly Pro Pro Cys Ala Cys Arg Thr Phe Phe Arg Val Cys Leu Lys
50 55 60
His Tyr Gln Ala Ser Val Ser Pro Glu Pro Pro Cys Thr Tyr Gly Ser
65 70 75 80
Ala Val Thr Pro Val Leu Gly Val Asp Ser Phe Ser Leu Pro Asp Gly
85 90 95
Ala Gly Ile Asp Pro Ala Phe Ser Asn Pro Ile Arg Phe Pro Phe Gly
100 105 110
Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His Thr
115 120 125
Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu Arg Leu Ile Ser
130 135 140
Arg Leu Thr Thr Gln Arg His Leu Thr Val Gly Glu Glu Trp Ser Gln
145 150 155 160
Asp Leu His Ser Ser Gly Arg Thr Asp Leu Arg Tyr Ser Tyr Arg Phe
165 170 175
Val Cys Asp Glu His Tyr Tyr Gly Glu Gly Cys Ser Val Phe Cys Arg
180 185 190
Pro Arg Asp Asp Ala Phe Gly His Phe Thr Cys Gly Asp Arg Gly Glu
195 200 205
Lys Met Cys Asp Pro Gly Trp Lys Gly Gln Tyr Cys Thr Asp Pro Ile
210 215 220
Cys Leu Pro Gly Cys Asp Asp Gln His Gly Tyr Cys Asp Lys Pro Gly
225 230 235 240
Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys Asp Glu Cys
245 250 255
Ile Arg Tyr Pro Gly Cys Val His Gly Thr Cys Gln Gln Pro Trp Gln
260 265 270
Cys Asn Cys Gln Glu Gly Trp Gly Gly Leu Phe Cys Asn Gln Asp Leu
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Asn Tyr Cys Thr His His Lys Pro Cys Arg Asn Gly Ala Thr Cys Thr
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Asn Thr Gly Gln Gly Ser Tyr Thr Cys Ser Cys Arg Pro Gly Tyr Thr
305 310 315 320
Gly Ala Asn Cys Glu Leu Glu Val Asp Glu Cys Ala Pro Ser Pro Cys
325 330 335
Lys Asn Gly Ala Ser Cys Thr Asp Leu Glu Asp Ser Phe Ser Cys Thr
340 345 350
Cys Pro Pro Gly Phe Tyr Gly Lys Val Cys Glu Leu Ser Ala Met Thr
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Thr	Asp	Leu	Tyr	Ser	Tyr	Arg	Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr	Gly
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Glu	Gly	Cys	Ser	Val	Phe	Cys	Arg	Pro	Arg	Asp	Asp	Phe	Gly	His	Phe
				165					170					175	
Thr	Cys	Gly	Arg	Gly	Glu	Lys	Cys	Pro	Gly	Trp	Lys	Gly	Gln	Tyr	Cys
			180					185					190		
Thr	Pro	Ile	Cys	Leu	Pro	Gly	Cys	Asp	Gln	His	Gly	Cys	Asp	Lys	Pro
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Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr	Cys	Asp	Glu
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Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Val	His	Gly	Thr	Cys	Gln	Gln	Pro	Trp
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Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys	Asn	Gln	Asp
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Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Asn	Gly	Ala	Thr	Cys	Thr
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Glu	Ser	Ser	Cys	Thr	Cys	Pro	Pro	Gly	Phe	Tyr	Gly	Lys	Cys	Glu	Leu
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Ser	Ala	Met	Thr	Cys	Ala	Asp	Gly	Pro	Cys	Phe	Asn	Gly	Gly	Arg	Cys
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Asp	Asn	Pro	Asp	Gly	Gly	Tyr	Cys	Cys	Pro	Leu	Gly	Ser	Gly	Phe	Asn
			340					345					350		
Cys	Glu	Lys	Lys	Asp	Cys	Ser	Ser	Pro	Cys	Asn	Gly	Ala	Cys	Val	Asp
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Leu	Gly	Asn	Ser	Tyr	Cys	Cys	Gln	Ala	Gly	Phe	Gly	Arg	Cys	Asp	Asn
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Val	Asp	Asp	Cys	Ala	Ser	Pro	Cys	Asn	Gly	Gly	Thr	Cys	Asp	Val	Asn
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Asp	Ser	Cys	Thr	Cys	Pro	Pro	Gly	Tyr	Gly	Lys	Asn	Cys	Ser	Pro	Val
			405						410					415	
Ser	Arg	Cys	Glu	His	Pro	Cys	His	Asn	Gly	Ala	Thr	Cys	His	Arg	Arg
			420					425					430		
Tyr	Cys	Glu	Cys	Ala	Gly	Tyr	Gly	Gly	Asn	Cys	Gln	Phe	Leu	Leu	Pro
		435					440					445			
Glu	Pro	Pro	Gly	Pro	Val	Asp	Glu	Glu	Gln	Phe	Pro	Trp	Ala	Val	Cys
	450					455					460				
Ala	Gly	Leu	Val	Leu	Leu	Leu	Leu	Gly	Cys	Ala	Ala	Val	Val	Cys	Val
465					470					475					480
Arg	Leu	Lys	Gln	Lys	Pro	Glu	Cys	Glu	Thr	Glu	Thr	Met	Asn	Asn	Leu
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Ala	Asn	Cys	Gln	Arg	Glu	Lys	Asp	Ser	Ser	Ile	Gly	Ala	Thr	Gln	Ile
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	515					520					525								
Val	Asp	Tyr	Asn	Leu	Val	Leu	Lys	Val	His	Lys	Lys	Cys	Ser	Glu	Glu				
	530					535					540								
Lys	Ala	Leu	Arg	Lys	Arg	Pro	Ser	Val	Tyr	Ser	Thr	Ser	Lys	Asp	Thr				
545					550					555					560				
Lys	Tyr	Gln	Ser	Val	Tyr	Val	Ser	Glu	Lys	Asp	Glu	Cys	Ile	Ala	Thr				
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Glu	Val																		

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 <213> Homo sapiens

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 tccgacaaga atggmtttca aggcccgtc cccagcgtg gactataact cgtgcaggac 180
 ctcaagggtg acgacaccgc cgtcaggacg tcgcacagca agcgtgacac caagtgccag 240
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 gggccgggct caggaggggg tacctggggg gtgtcttctt ggaaccactg ctccgtttct 360
 cttcccaaatt gttctcatgc attcattgtg gattttctct attttccttt tagtggagaa 420
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<210> 15
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of humna delta

<220>
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 <222> 4
 <223> Xaa = Any Amino Acid

<400> 15
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 1 5 10

<210> 16
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of humna delta

<220>
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 <222> 11, 15, 23, 24, 28
 <223> Xaa = Any Amino Acid

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Pro Thr Arg Arg Arg Thr Xaa Xaa Arg Gly Thr Xaa Ala Ser Asp Lys
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 Asn Gly Phe Gln Gly Pro Leu Pro Gln Arg Gly Leu
 35 40

<210> 17
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> VARIANT
 <222> 41
 <223> Xaa = Any Amino Acid

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 Arg Gly Pro Arg Pro His Ser Gly Xaa Ala Cys Cys Gly Pro Gly Ser
 35 40 45
 Gly Gly Gly Thr Trp Gly Val Ser Ser Trp His Cys Ser Val Ser Leu
 50 55 60
 Pro Lys Cys Ser His Ala Phe Ile Val Asp Phe Leu Tyr Phe Pro Phe
 65 70 75 80
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 85 90 95
 Ser Lys Asp Thr Lys Tyr Gln Ser Val Tyr Val Ile Ser Glu Glu Lys
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 Asp Glu Cys Val Ile Ala
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<210> 18
 <211> 173
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

<220>
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 <223> Xaa = Any Amino Acid

<400> 18
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 20 25 30
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 35 40 45
 Tyr Pro Ser Val Asp Tyr Asn Ser Cys Arg Thr Ser Arg Val Thr Thr
 50 55 60
 Pro Pro Ser Gly Arg Arg Thr Ala Ser Val Thr Pro Ser Ala Ser Pro

65					70					75					80
Gln	Ala	Pro	Gln	Gly	Gly	Glu	Gly	Asp	Pro	Asp	His	Thr	Gln	Gly	Xaa
				85					90					95	
Arg	Ala	Ala	Gly	Arg	Ala	Gln	Glu	Gly	Val	Pro	Gly	Gly	Cys	Leu	Pro
			100					105					110		
Gly	Thr	Thr	Ala	Pro	Phe	Leu	Phe	Pro	Asn	Val	Leu	Met	His	Ser	Leu
		115					120					125			
Trp	Ile	Phe	Ser	Ile	Phe	Leu	Leu	Val	Glu	Lys	His	Leu	Lys	Glu	Lys
	130					135					140				
Gly	Arg	Thr	Arg	Ala	Val	Gln	Leu	Gln	Lys	Thr	Pro	Ser	Thr	Ser	Arg
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Cys	Thr	Ser	Tyr	Pro	Arg	Arg	Arg	Thr	Ser	Ala	Ser	Ser			
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

<220>
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 <222> 1, 19, 23, 32, 33, 36, 43
 <223> Xaa = Any Amino Acid

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20 25 30
Xaa Gly Asp Xaa Ser Val Arg Gln Glu Trp Xaa Ser Arg Pro Ala Thr
35 40 45
Pro Ala Trp Thr Ile Thr Arg Ala Gly Pro Gln Gly
50 55 60

<210> 20
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

<400> 20
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1 5 10

<210> 21
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

<400> 21

His	Gln	Val	Pro	Val	Pro	Arg	Leu	Leu	Arg	Glu	Glu	Lys	Gly	Thr	Pro
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Thr	Thr	Leu	Arg	Gly	Cys	Val	Leu	Arg	Ala	Gly	Leu	Arg	Arg	Gly	Tyr
			20					25					30		
Leu	Gly	Gly	Val	Phe	Leu	Glu	Pro	Leu	Leu	Arg	Phe	Ser	Ser	Gln	Met
		35					40					45			
Phe	Ser	Cys	Ile	His	Cys	Gly	Phe	Ser	Leu	Phe	Ser	Phe			
	50					55					60				

<210> 22
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

Lys	Lys	Lys	Ala	Gly	Leu	Gly	Leu	Phe	Asn	Phe	Lys	Lys	Arg	His	Gln
1				5					10					15	
Val	Pro	Val	Gly	Val	Arg	His	Ile	Arg	Gly	Glu	Gly	Arg	Val	Arg	His
			20					25					30		

Arg

<210> 23
 <211> 175
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

<220>
 <221> VARIANT
 <222> 25, 34, 35, 38, 97
 <223> Xaa = Any Amino Acid

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1				5					10					15	
Ser	Ile	Ile	Gly	Ala	Thr	Gly	Ile	Xaa	Asn	Thr	Asn	Lys	Lys	Ala	Asp
			20					25					30		
Phe	Xaa	Xaa	Gly	Asp	Xaa	Ser	Ser	Asp	Lys	Asn	Gly	Phe	Gln	Lys	Ala
		35				40					45				
Arg	Tyr	Pro	Ser	Val	Asp	Tyr	Asn	Leu	Val	Gln	Asp	Leu	Lys	Gly	Asp
	50					55					60				
Asp	Thr	Ala	Val	Arg	Thr	Ser	His	Ser	Lys	Arg	Asp	Thr	Lys	Cys	Gln
65					70					75				80	
Ser	Pro	Gly	Ser	Ser	Gly	Arg	Arg	Arg	Gly	Pro	Arg	Pro	His	Ser	Gly
				85				90					95		
Xaa	Ala	Cys	Cys	Gly	Pro	Gly	Ser	Gly	Gly	Gly	Thr	Trp	Gly	Val	Ser
			100					105					110		
Ser	Trp	Asn	His	Cys	Ser	Val	Ser	Leu	Pro	Lys	Cys	Ser	His	Ala	Phe
		115					120					125			
Ile	Val	Asp	Phe	Leu	Tyr	Phe	Pro	Phe	Ser	Gly	Glu	Ala	Ser	Glu	Arg
	130					135					140				
Lys	Arg	Pro	Asp	Ser	Gly	Cys	Ser	Thr	Ser	Lys	Asp	Thr	Lys	Tyr	Gln
145					150					155					160

Ser Val Tyr Val Ile Ser Glu Glu Lys Asp Glu Cys Val Ile Ala
165 170 175

<210> 24
<211> 2899
<212> DNA
<213> Artificial Sequence

<220>
<223> Consenses sequence of mouse delta and human delta

<220>
<221> misc_feature
<222> 854, 973, 984, 1582, 1787, 1819, 1864, 1916, 1951, 2033,
2152, 2156, 2171, 2183, 2194, 2212, 2220, 2226, 2230, 2244,
2245, 2264, 2265, 2266, 2287
<223> n = A,T,C or G

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agrgctcykg aggrgargag aaggggaycs ccgaccmaca ctyagggggg ggaggaagmw 2100
tcytagamaga aaaaggccrg astyygggyy trytcwactt tcaaargaca ancmangtac 2160
magtcggtgt nygtymtkctc ygnagragga aggntgastg ygtyataggm rnytgaggtn 2220
gtaarntggn agcgatgtgg caannttccc atttctcksa aaknnnatc cmmggatata 2280
gcyccgntga atgctkctga gagaggaagg gagaggaaac ccagggactg ykytcagaa 2340
ccaggttcag gcgaagctgg ttctctcaga gttagcagag gcgcccagca ctgccagcct 2400
aggctttggc tgccgctgga ctgcctgctg gttgttccca ttgcactatg gacagttgct 2460

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ttgaagagta tatattttaa tggacgagtg acttgattca tatacgaagc acgcactgcc 2520
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cgtgtgttat ttttttggga tttgtaaaaa tattttttcat gatatctgta aagcttgagt 2700
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gggtctatgt gactatattt ttttgtatat aaatgtattt atggaatatt gtgcaaatgt 2820
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<210> 25

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> sequence encoded by SEQ ID NO. 93 (degenerated oligo)

<400> 25

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5

<210> 26

<211> 1981

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 559, 678, 689, 1287, 1492, 1524, 1569, 1621, 1656, 1738, 1857, 1861, 1876, 1888, 1899, 1917, 1925, 1931, 1935, 1942, 1943, 1952, 1953, 1954, 1968

<223> n = A,T,C or G

<400> 26

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gtgcaactgc caggaaggnt gggggggcct tttctgcaac caggacctga actactgcac 600
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cgagttgttg accccagccc ttggttaagaa cggagggagc ttgacggatc ttcgggagaa 780
agctactcct gtacctgccc acccggcttc tacggcaaaa tctgtgaatt gagtgccatg 840
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ggctctgcgtc cggctgaggc tgcagaagca ccggcccccga gccgaccctt gncggggggga 1500
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ngtacaagtc ggtgtncgtc atttccgnag gaggaaggnt gactgcgtca taggaanttg 1920
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<210> 27
<211> 31
<212> PRT
<213> Artificial Sequence

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<220>
<223> Deduced amino acid sequence using the three
       possible ORF of human Delta contigs

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<400> 27
His Trp Val Arg Ala Pro Leu Glu Val Asp Gly Ile Asp Lys Leu Asp
 1             5             10             15
Ile Glu Phe Arg Leu His Leu Ala Gly His Leu Leu Ser Asp Tyr
      20             25             30

```

```

<210> 28
<211> 7
<212> PRT
<213> Artificial Sequence

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<220>
<223> Deduced amino acid sequence using the three
       possible ORF of human Delta contigs

```

```

<400> 28
Ser Ser Pro His Arg Phe Ser
 1             5

```

```

<210> 29
<211> 45
<212> PRT
<213> Artificial Sequence

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<220>
<223> Deduced amino acid sequence using the three
       possible ORF of human Delta contigs

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<400> 29
Pro Arg Asn Arg Lys Pro Arg Lys Thr His Gln Pro Pro Gly His Pro
 1             5             10             15
Glu Ala Pro Asp Gly Gly Arg Gly Val Val Pro Gly Pro Ala Gln Gln
      20             25             30
Arg Pro His Gly Pro Gln Val Leu Leu Pro Leu Arg Val
      35             40             45

```

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<210> 30
<211> 49

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<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 30
Arg Thr Leu Leu Arg Arg Gly Leu Leu Arg Phe Pro Ser Pro Gly Arg
1 5 10 15
Cys Leu Arg Pro Leu His Leu Trp Gly Ala Trp Gly Glu Ser Val Gln
20 25 30
Pro Trp Leu Glu Arg Ala Leu Leu His Arg Ala Asp Leu Pro Ala Trp
35 40 45
Met

<210> 31
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 31
Ala Ala Trp Ile Leu
1 5

<210> 32
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 32
Gln Thr Arg Gly Met Gln Val Gln Ser Gly Leu Ala Gly Pro Val Leu
1 5 10 15

<210> 33
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 25
<223> Xaa = Any Amino Acid

<400> 33

Arg	Val	Tyr	Pro	Leu	Ser	Arg	Leu	Ser	Pro	Trp	His	Leu	Pro	Ala	Ala
1				5					10					15	
Leu	Ala	Val	Gln	Leu	Pro	Gly	Arg	Xaa	Gly	Gly	Pro	Phe	Leu	Gln	Pro
			20					25					30		
Gly	Pro	Glu	Leu	Leu	His	Thr	Pro								
		35					40								

<210> 34
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 27
 <223> Xaa = Any Amino Acid

Ala	Leu	Gln	Glu	Trp	Ser	His	Leu	Gln	Gln	Thr	Arg	Ala	Arg	Gly	Ser
1				5					10					15	
Tyr	Thr	Trp	Ser	Leu	Ala	Gly	Leu	Gly	Tyr	Xaa	Gly	Cys	His	Leu	Arg
			20					25					30		
Ser	Leu	Gly	Ile	Gly	Arg	Val	Val	Asp	Pro	Ser	Pro	Trp			
		35					40					45			

<210> 35
 <211> 196
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 166, 179
 <223> Xaa = Any Amino Acid

Glu	Arg	Arg	Glu	Leu	Asp	Gly	Ser	Ser	Glu	Asn	Ser	Tyr	Ser	Cys	Thr
1				5					10					15	
Cys	Pro	Pro	Gly	Phe	Tyr	Gly	Lys	Ile	Cys	Glu	Leu	Ser	Ala	Met	Thr
			20					25					30		
Cys	Ala	Asp	Gly	Pro	Cys	Phe	Asn	Gly	Gly	Arg	Cys	Ser	Asp	Pro	Asp
		35					40				45				
Gly	Gly	Tyr	Ser	Cys	Arg	Cys	Pro	Val	Gly	Tyr	Ser	Gly	Phe	Asn	Cys
		50				55					60				
Glu	Lys	Lys	Ile	Asp	Tyr	Cys	Ser	Ser	Ser	Pro	Cys	Ser	Asn	Gly	Ala
65				70						75				80	
Lys	Cys	Val	Asp	Leu	Gly	Asp	Ala	Tyr	Leu	Cys	Arg	Gly	Gln	Ala	Gly
			85				90						95		
Phe	Ser	Gly	Arg	His	Cys	Asp	Asp	Asn	Val	Asp	Asp	Cys	Ala	Ser	Ser
			100				105					110			
Pro	Cys	Ala	Asn	Gly	Gly	Thr	Cys	Arg	Asp	Gly	Val	Asn	Asp	Phe	Ser

<210> 38
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 38
 Pro Arg Ala Gly Pro Gln Gly
 1 5

<210> 39
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 39
 Arg His Arg Arg Gln Gly Arg Ala Gln Gln Ala
 1 5 10

<210> 40
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 4, 43, 45, 50, 54
 <223> Xaa = Any Amino Acid

<400> 40
 His Gln Val Xaa Ala Pro Gly Leu Leu Arg Gly Gly Glu Gly Asp Pro
 1 5 10 15
 Arg Pro Thr Leu Arg Gly Trp Arg Lys His Leu Glu Arg Lys Arg Pro
 20 25 30
 Asp Phe Gly Leu Val Gln Leu Ser Lys Asp Xaa Gln Xaa Thr Ser Arg
 35 40 45
 Cys Xaa Ser Phe Pro Xaa Glu Glu Gly
 50 55

<210> 41
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 5, 8
 <223> Xaa = Any Amino Acid

<400> 41
 Leu Arg His Arg Xaa Leu Arg Xaa
 1 5

<210> 42
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 1, 4, 5
 <223> Xaa = Any Amino Acid

<400> 42
 Xaa Trp Lys Xaa Xaa Pro Gly Phe Arg Phe Gln Ser Phe
 1 5 10

<210> 43
 <211> 276
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 226, 230
 <223> Xaa = Any Amino Acid

<400> 43
 Ile Gly Tyr Gly Pro Pro Ser Arg Ser Thr Val Ser Ile Ser Leu Ile
 1 5 10 15
 Ser Asn Ser Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu
 20 25 30
 Ala Leu His Thr Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu
 35 40 45
 Arg Leu Ile Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu
 50 55 60
 Glu Trp Ser Gln Asp Leu His Ser Ser Gly Arg Thr Asp Leu Lys Tyr
 65 70 75 80
 Ser Tyr Arg Phe Val Cys Asp Glu His Tyr Tyr Gly Glu Gly Cys Ser

				85					90					95			
Val	Phe	Cys	Arg	Pro	Arg	Asp	Asp	Ala	Phe	Gly	His	Phe	Thr	Cys	Gly		
			100					105					110				
Glu	Arg	Gly	Glu	Lys	Val	Cys	Asn	Pro	Gly	Trp	Lys	Gly	Pro	Tyr	Cys		
		115					120					125					
Thr	Glu	Pro	Ile	Cys	Leu	Pro	Gly	Cys	Asp	Glu	Gln	His	Gly	Phe	Cys		
	130					135					140						
Asp	Lys	Pro	Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr		
145					150					155					160		
Cys	Asp	Glu	Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Leu	His	Gly	Thr	Cys	Gln		
			165					170						175			
Gln	Pro	Trp	Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys		
		180					185						190				
Asn	Gln	Asp	Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Lys	Asn	Gly		
	195					200						205					
Ala	Thr	Cys	Asn	Lys	His	Gly	Pro	Gly	Gly	Ala	Thr	Leu	Gly	Leu	Trp		
	210					215					220						
Pro	Xaa	Trp	Gly	Thr	Xaa	Gly	Ala	Thr	Cys	Glu	Ala	Trp	Gly	Leu	Asp		
225					230					235				240			
Glu	Leu	Leu	Thr	Pro	Ala	Leu	Gly	Lys	Asn	Gly	Gly	Ser	Leu	Thr	Asp		
			245				250						255				
Leu	Arg	Arg	Thr	Ala	Thr	Pro	Val	Pro	Ala	His	Pro	Ala	Ser	Thr	Ala		
			260				265						270				
Lys	Ser	Val	Asn														
		275															

<210> 44

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three possible ORF of human Delta contigs

<400> 44

Pro	Val	Arg	Thr	Ala	Leu	Ala	Leu	Thr	Gly	Val	Gly	Ala	Gln	Thr	Ala		
1				5					10				15				
Pro	Met	Glu	Gly	Thr	Ala	Ala	Ala	Ala	Pro	Trp	Ala	Thr	Pro	Ala	Ser		
		20					25					30					
Thr	Val	Arg	Arg	Lys	Leu	Thr	Thr	Ala	Ala	Leu	His	Pro	Val	Leu	Met		
		35				40					45						
Val	Pro	Ser	Val	Trp	Thr	Ser	Val	Met	Pro	Thr	Cys	Ala	Ala	Ala	Arg		
	50					55					60						
Pro	Ala	Ser	Arg	Gly	Gly	Thr	Val	Thr	Thr	Thr	Trp	Thr	Thr	Ala	Pro		
65				70					75					80			
Pro	Pro	Arg	Ala	Pro	Thr	Gly	Ala	Pro	Ala	Gly	Met	Ala					
				85					90								

<210> 45

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 55
 <223> Xaa = Any Amino Acid

<400> 45
 Thr Thr Ser Pro Ala Pro Ala Arg Leu Ala Thr Arg Ala Gly Thr Ala
 1 5 10 15
 Val Pro Pro Pro Ala Gly Ala Ser Thr His Pro Ala Thr Met Gly Pro
 20 25 30
 Pro Ala Thr Arg Gly Ala Thr Ala Ile Cys Ala Ser Val Pro Glu Ala
 35 40 45
 Thr Gly Val Pro Thr Ala Xaa Ser Cys Pro Lys Leu Pro Pro Arg Pro
 50 55 60
 His Gly Gly Gly Asn Ser Pro Lys Lys Thr
 65 70

<210> 46
 <211> 187
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 47, 58, 73, 101, 128, 167, 168, 181, 187
 <223> Xaa = Any Amino Acid

<400> 46
 Lys Gly Arg Gly Gly Pro Ile Pro Leu Val Asp Val Cys Ala Gly Val
 1 5 10 15
 Ile Leu Val Leu Met Leu Leu Leu Gly Cys Ala Ala Val Val Cys
 20 25 30
 Val Arg Leu Arg Leu Gln Lys His Arg Pro Pro Ala Asp Pro Xaa Arg
 35 40 45
 Gly Glu Thr Glu Thr Met Asn Asn Leu Xaa Asn Cys Gln Arg Glu Lys
 50 55 60
 Asp Ile Ser Val Ser Ile Ile Gly Xaa Thr Gln Ile Lys Asn Thr Asn
 65 70 75 80
 Lys Lys Ala Asp Phe His Gly Asp His Ala Asp Lys Asn Gly Phe Lys
 85 90 95
 Ala Arg Tyr Pro Xaa Val Asp Tyr Asn Leu Val Gln Asp Leu Lys Gly
 100 105 110
 Asp Asp Thr Ala Val Arg Asp Ala His Ser Lys Arg Asp Thr Lys Xaa
 115 120 125
 Gln Pro Gln Gly Ser Ser Gly Glu Glu Gly Thr Pro Asp Pro His Ser
 130 135 140
 Gly Gly Gly Gly Ser Ile Leu Lys Glu Lys Gly Arg Thr Ser Gly Leu
 145 150 155 160
 Phe Asn Phe Gln Lys Thr Xaa Xaa Val Gln Val Gly Val Arg His Phe
 165 170 175
 Arg Arg Arg Lys Xaa Asp Cys Val Ile Gly Xaa
 180 185

<210> 47
 <211> 20

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

 <220>
 <221> VARIANT
 <222> 2, 4, 5, 7, 8, 11, 16
 <223> Xaa = Any Amino Acid

 <400> 47
 Gly Xaa Lys Xaa Xaa Val Xaa Xaa Gly Lys Xaa Ser Pro Asp Ser Xaa
 1 5 10 15
 Phe Lys Val Phe
 20

 <210> 48
 <211> 12
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

 <400> 48
 Leu Gly Thr Gly Pro Pro Arg Gly Arg Arg Tyr Arg
 1 5 10

 <210> 49
 <211> 13
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

 <400> 49
 Tyr Arg Ile Pro Ala Ser Pro Gly Arg Ala Pro Ser Leu
 1 5 10

 <210> 50
 <211> 30
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

 <400> 50
 Leu Leu Lys Leu Ser Thr Gln Ile Leu Leu Met Thr Ser Gln Gln Lys
 1 5 10 15
 Thr Gln Lys Asp Ser Ser Ala Ala Trp Pro Pro Arg Gly Thr

20

25

30

<210> 51
 <211> 135
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 126
 <223> Xaa = Any Amino Acid

<400> 51
 Arg Trp Ala Arg Ser Gly Pro Arg Thr Cys Thr Ala Ala Ala Ala Arg
 1 5 10 15
 Thr Ser Ser Thr Pro Thr Ala Ser Cys Val Thr Asn Thr Thr Thr Glu
 20 25 30
 Arg Ala Ala Pro Phe Ser Ala Val Pro Gly Thr Met Pro Ser Ala Thr
 35 40 45
 Ser Pro Val Cys Ser Val Gly Arg Lys Cys Ala Thr Leu Ala Gly Lys
 50 55 60
 Gly Pro Thr Ala Gln Ser Arg Ser Ala Cys Leu Asp Val Met Ser Ser
 65 70 75 80
 Met Asp Phe Phe Val Thr Asn Gln Asn Ala Ser Ala Glu Trp Ala Gly
 85 90 95
 Arg Ala Gly Thr Val Thr Ser Val Ser Ala Ile Gln Ala Val Ser Met
 100 105 110
 Ala Pro Ala Ser Ser Pro Gly Ser Ala Thr Ala Arg Lys Xaa Gly Gly
 115 120 125
 Ala Phe Ser Ala Thr Arg Thr
 130 135

<210> 52
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 30, 33
 <223> Xaa = Any Amino Acid

<400> 52
 Thr Thr Ala His Thr Ile Ser Pro Ala Arg Met Glu Pro Pro Ala Thr
 1 5 10 15
 Asn Thr Gly Gln Gly Glu Leu His Leu Val Phe Gly Arg Xaa Gly Val
 20 25 30
 Xaa Arg Val Pro Pro Ala Lys Leu Gly Asp Trp Thr Ser Cys
 35 40 45

<210> 53
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 53
Pro Gln Pro Leu Val Arg Thr Glu Gln Glu
1 5 10

<210> 54
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 54
Arg Ile Phe Gly Glu Gln Leu Leu Leu Tyr Leu Pro Thr Arg Leu Leu
1 5 10 15
Arg Gln Asn Leu
20

<210> 55
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 55
Ile Glu Cys His Asp Leu Cys Gly Arg Pro Leu Leu
1 5 10

<210> 56
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 56
Arg Gly Ser Val Leu Arg Gln Pro Arg Trp Arg Val Gln Leu Pro Leu
1 5 10 15
Pro Arg Gly Leu Leu Arg Leu Gln Leu
20 25

<210> 57

<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 57
Leu Leu Gln Leu Phe Thr Leu Phe
1 5

<210> 58
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 58
Trp Cys Gln Val Cys Gly Pro Arg
1 5

<210> 59
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 59
Cys Leu Pro Val Pro Leu Pro Gly Arg Leu Leu Gly Glu Ala Leu
1 5 10 15

<210> 60
<211> 131
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 76
<223> Xaa = Any Amino Acid

<400> 60
Arg Gln Arg Gly Arg Leu Arg Leu Leu Pro Val Arg Gln Gly His Leu
1 5 10 15
Pro Gly Trp Arg Glu Arg Leu Leu Leu His Leu Pro Ala Trp Leu His
20 25 30
Gly Gln Glu Leu Gln Cys Pro Arg Gln Gln Val Arg Ala Arg Thr Leu

		35					40					45					
Pro	Gln	Trp	Gly	His	Leu	Pro	Arg	Glu	Gly	Pro	Pro	Leu	Phe	Val	Arg		
	50					55					60						
Val	Cys	Pro	Lys	Leu	Arg	Gly	Ser	Gln	Leu	Pro	Xaa	Pro	Ala	Pro	Arg		
65					70					75					80		
Asn	Cys	Pro	Pro	Gly	Pro	Thr	Val	Val	Glu	Thr	Pro	Leu	Lys	Lys	Pro		
				85					90					95			
Lys	Arg	Ala	Gly	Gly	Gly	Pro	Ser	Pro	Trp	Trp	Thr	Cys	Ala	Pro	Gly		
			100					105					110				
Ser	Ser	Leu	Ser	Ser	Cys	Cys	Cys	Trp	Ala	Val	Pro	Leu	Trp	Trp	Ser		
		115					120					125					
Ala	Ser	Gly															
		130															

<210> 61
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa = Any Amino Acid

Gly	Cys	Arg	Ser	Thr	Gly	Pro	Gln	Pro	Thr	Pro	Xaa	Gly	Gly	Arg	Arg		
1				5					10					15			
Arg	Pro																

<210> 62
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 4, 19, 36, 48, 75
 <223> Xaa = Any Amino Acid

Thr	Thr	Trp	Xaa	Thr	Ala	Ser	Val	Arg	Arg	Thr	Ser	Gln	Ser	Ala	Ser		
1				5					10					15			
Ser	Gly	Xaa	Arg	Arg	Ser	Arg	Thr	Pro	Thr	Arg	Arg	Arg	Thr	Ser	Thr		
			20					25					30				
Gly	Thr	Thr	Xaa	Pro	Thr	Arg	Met	Ala	Ser	Arg	Pro	Ala	Thr	Gln	Xaa		
			35				40					45					
Trp	Thr	Ile	Thr	Ser	Cys	Arg	Thr	Ser	Arg	Val	Thr	Thr	Pro	Pro	Ser		
	50				55						60						
Gly	Thr	Arg	Thr	Ala	Ser	Val	Thr	Pro	Ser	Xaa	Ser	Pro	Arg	Ala	Pro		
65				70					75						80		

Gln Gly Arg Arg Arg Cys Pro Pro Thr His Thr Gln Gly Val Glu Glu
85 90 95
Ala Ser

<210> 63
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 16, 17, 22, 26, 30
<223> Xaa = Any Amino Acid

<400> 63
Lys Lys Lys Ala Gly Leu Arg Ala Cys Ser Thr Phe Lys Arg Gln Xaa
1 5 10 15
Xaa Tyr Lys Ser Val Xaa Val Ile Ser Xaa Gly Gly Arg Xaa Thr Ala
20 25 30
Ser

<210> 64
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 2, 6, 8, 10, 13, 14, 19
<223> Xaa = Any Amino Acid

<400> 64
Glu Xaa Glu Val Val Xaa Trp Xaa Leu Xaa Leu Glu Xaa Xaa Pro Arg
1 5 10 15
Ile Pro Xaa Ser Lys Phe
20

<210> 65
<211> 192
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 65
Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His

1				5				10					15		
Thr	Asp	Ser	Pro	Asp	Asp	Leu	Ala	Thr	Glu	Asn	Pro	Glu	Arg	Leu	Ile
			20					25					30		
Ser	Arg	Leu	Ala	Thr	Gln	Arg	His	Leu	Thr	Val	Gly	Glu	Glu	Trp	Ser
		35					40					45			
Gln	Asp	Leu	His	Ser	Ser	Gly	Arg	Thr	Asp	Leu	Lys	Tyr	Ser	Tyr	Arg
	50					55					60				
Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr	Gly	Glu	Gly	Cys	Ser	Val	Phe	Cys
65					70					75					80
Arg	Pro	Arg	Asp	Asp	Ala	Phe	Gly	His	Phe	Thr	Cys	Gly	Glu	Arg	Gly
				85					90					95	
Glu	Lys	Val	Cys	Asn	Pro	Gly	Trp	Lys	Gly	Pro	Tyr	Cys	Thr	Glu	Pro
			100					105					110		
Ile	Cys	Leu	Pro	Gly	Cys	Asp	Glu	Gln	His	Gly	Phe	Cys	Asp	Lys	Pro
		115					120					125			
Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr	Cys	Asp	Glu
	130					135					140				
Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Leu	His	Gly	Thr	Cys	Gln	Gln	Pro	Trp
145					150					155					160
Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys	Asn	Gln	Asp
				165				170						175	
Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Lys	Asn	Gly	Ala	Thr	Cys
			180					185					190		

<210> 66
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Composite human delta (H-Delta-1) amino acid
 sequence

<400> 66
 Thr Asn Thr Gly Gln Gly
 1 5

<210> 67
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Composite human delta (H-Delta-1) amino acid
 sequence

<400> 67
 Lys Asn Gly Gly Ser Leu Thr Asp Leu
 1 5

<210> 68
 <211> 157
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Composite human delta (H-Delta-1) amino acid

sequence

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<400> 68
Glu Asn Ser Tyr Ser Cys Thr Cys Pro Pro Gly Phe Tyr Gly Lys Ile
 1          5          10          15
Cys Glu Leu Ser Ala Met Thr Cys Ala Asp Gly Pro Cys Phe Asn Gly
      20          25          30
Gly Arg Cys Ser Asp Ser Pro Asp Gly Gly Tyr Ser Cys Arg Cys Pro
      35          40          45
Val Gly Tyr Ser Gly Phe Asn Cys Glu Lys Lys Ile Asp Tyr Cys Ser
      50          55          60
Ser Ser Pro Cys Ser Asn Gly Ala Lys Cys Val Asp Leu Gly Asp Ala
65          70          75          80
Tyr Leu Cys Arg Cys Gln Ala Gly Phe Ser Gly Arg His Cys Asp Asp
      85          90          95
Asn Val Asp Asp Cys Ala Ser Ser Pro Cys Ala Asn Gly Gly Thr Cys
      100          105          110
Arg Asp Gly Val Asn Asp Phe Ser Cys Thr Cys Pro Pro Gly Tyr Thr
      115          120          125
Gly Arg Asn Cys Ser Ala Pro Ala Ser Arg Cys Glu His Ala Pro Cys
      130          135          140
His Asn Gly Ala Thr Cys His Glu Arg Gly His Arg Tyr
145          150          155

```

```

<210> 69
<211> 12
<212> PRT
<213> Artificial Sequence

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<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

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```

<400> 69
Cys Glu Cys Ala Arg Ser Tyr Gly Gly Pro Asn Cys
 1          5          10

```

```

<210> 70
<211> 5
<212> PRT
<213> Artificial Sequence

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<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

```

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<400> 70
Phe Leu Leu Pro Glu
 1          5

```

```

<210> 71
<211> 4
<212> PRT
<213> Artificial Sequence

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<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

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<400> 71
Pro Pro Gly Pro
1

<210> 72
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 72
Leu Leu Leu Gly Cys Ala Ala Val Val Val Cys Val Arg Leu Arg Leu
1 5 10 15
Gln Lys His Arg Pro Pro Ala Asp Pro
20 25

<210> 73
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 73
Arg Gly Glu Thr Glu Thr Met Asn Asn Leu
1 5 10

<210> 74
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 74
Asn Cys Gln Arg Glu Lys Asp Ile Ser Val Ser Ile Ile Gly
1 5 10

<210> 75
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 75

Thr Gln Ile Lys Asn Thr Asn Lys Lys Ala Asp Phe His Gly Asp His
1 5 10 15

<210> 76

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 76

Ala Asp Lys Asn Gly Phe Lys Ala Arg Tyr Pro
1 5 10

<210> 77

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 77

Val Asp Tyr Asn Leu Val Gln Asp Leu Lys Gly Asp Asp Thr Ala Val
1 5 10 15
Arg Asp Ala His Ser Lys Arg Asp Thr Lys
20 25

<210> 78

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 78

Gln Pro Gln Gly Ser Ser Gly Glu Glu Lys Gly Thr Pro
1 5 10

<210> 79

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 79

Pro Thr Leu Arg
1

<210> 80
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 80
Arg Lys Arg Pro
1

<210> 81
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Degenerated oligo as primer

<220>
<221> VARIANT
<222> 6, 12, 18, 21
<223> n = I (Inosine)

<400> 81
ttcggnttya cntggccngg nac

23

<210> 82
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Degenerated oligo as primer

<220>
<221> VARIANT
<222> 3, 9, 12, 15
<223> n = I (Inosine)

<400> 82
tcnatgcang tncncrctt

20

<210> 83
<211> 8
<212> PRT
<213> Drosophila

<400> 83
Phe Gly Phe Thr Trp Pro Gly Thr
1 5

<210> 84
<211> 7
<212> PRT

<213> Drosophila

<400> 84

Asn Gly Gly Thr Cys Ile Asp
1 5

<210> 85

<211> 12

<212> PRT

<213> Drosophila

<400> 85

Ser Ile Pro Pro Gly Ser Arg Thr Ser Leu Gly Val
1 5 10

<210> 86

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer 1 for PCR

<220>

<221> VARIANT

<222> 3, 9, 15, 18, 21

<223> n = I (Inosine)

<400> 86

ggnttcacnt ggccnggnac ntt

23

<210> 87

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer 2 for PCR

<220>

<221> VARIANT

<222> 3, 6, 18

<223> n = I (Inosine)

<400> 87

gtncncrcrt tyttcangg rtt

23

<210> 88

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> EGF-like repeats encoded by SEQ ID NO. 87

<400> 88

Asn Pro Cys Lys Asn Gly Gly Thr
1 5

<210> 89
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerated oligo primer

<220>
<221> VARIANT
<222> 3, 15, 18
<223> n = I (Inosine)

<400> 89
acnatgaaya ayctngcnaa ytg

23

<210> 90
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> amino acid encoded by SEQ ID NO. 89

<400> 90
Thr Met Asn Asn Leu Ala Asn Cys
1 5

<210> 91
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerated oligo primer

<220>
<221> VARIANT
<222> 6, 9, 21
<223> n = I (Inosine)

<400> 91
acrtaanacng aytgrtaytt ngd

23

<210> 92
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> amino acid sequence encoded by SEQ ID NO. 91

<400> 92
Thr Lys Tyr Gln Ser Val Tyr Val
1 5

<210> 93
<211> 23

<212> DNA
<213> Artificial Sequence

<220>
<223> degenerated oligo

<220>
<221> VARIANT
<222> 6
<223> n = I (Inosine)

<400> 93
gc datnacrc aytcrctcytt ytc

23

<210> 94
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> amino acid sequence encoded by SEQ ID NO. 86

<400> 94
Gly Phe Thr Trp Pro Gly Thr Phe
1 5

<210> 95
<211> 129
<212> PRT
<213> Homo sapiens

<400> 95
Thr Met Asn Asn Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Ile
1 5 10 15
Ser Val Ile Gly Ala Thr Gln Ile Lys Asn Thr Asn Lys Lys Val Asp
20 25 30
Phe His Ser Asp Asn Ser Asp Lys Asn Gly Tyr Lys Val Arg Tyr Pro
35 40 45
Ser Val Asp Tyr Asn Leu Val His Glu Leu Lys Asn Glu Asp Ser Val
50 55 60
Lys Glu Glu His Gly Lys Cys Glu Ala Lys Cys Glu Thr Tyr Asp Ser
65 70 75 80
Glu Ala Glu Glu Lys Ser Ala Val Gln Leu Lys Ser Ser Asp Thr Ser
85 90 95
Glu Arg Lys Arg Pro Asp Ser Val Tyr Ser Thr Ser Lys Asp Thr Lys
100 105 110
Tyr Gln Ser Val Tyr Val Ile Ser Glu Glu Lys Asp Glu Cys Ile Ile
115 120 125
Ala